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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 21-09-18

Lab ID	:	**CP-2018-12-03-05**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	18-09-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.4	–
2	Finess by Air permeablity method (m^2/kg,Min)	256.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-03-05** **Date: 21-09-18**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	18-09-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	300	300	2.0	98.0	90-100
3	20 mm	5624	5924	39.5	60.5	30-70
4	10 mm	4352	10276	68.5	31.5	10-35
5	4.75 mm	4235	14511	96.7	3.3	0-5
6	Pan	489	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-03-05** **Date: 21-09-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.24	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-03-05** **Date: 21-09-18**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	18-09-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	259	259	5.2	94.8	90-100
3	10 mm	2455	2714	54.3	45.7	25-55
4	4.75 mm	1895	4609	92.2	7.8	0-10
5	Pan	391	5000	100	0	--

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-03-05** **Date: 21-09-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.26	–
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-03-05** **Date: 21-09-18**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	18-09-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	259	259	5.2	94.8	90-100
3	10 mm	2455	2714	54.3	45.7	25-55
4	4.75 mm	1895	4609	92.2	7.8	0-10
5	Pan	391	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-03-05** **Date: 21-09-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.26	_
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-03-05** **Date: 21-09-18**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 18-09-18

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 18-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	155	237	23.7	76.3	60-95	75-100	85-100	95-100
4	1.18 mm	168	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	178	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	189	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	145	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-03-05** **Date: 21-09-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.3	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Date: 27-09-18

Lab ID : **CP-2018-12-03-05**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 26-09-18

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 26-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	509	612	22.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	548	672	21.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.582	568	697	20.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.479	589	702	19.5%	Satisfactory	Satisfactory
	Sunvik	Fe500	25	3.473	598	710	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-03-05** **Date: 16/10/2018**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 11-10-18

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	16/10/2018	149.18 X 149.23 X 149.75	22262	**8.896**	531.1	23.9	22.8
2	Footing Concrete	M25	09/10/2018	16/10/2018	150.93 X 149.53 X 149.78	22569	**8.248**	507.4	22.5	
3	Footing Concrete	M25	09/10/2018	16/10/2018	151.71 X 150.33 X 151.27	22807	**8.219**	502.5	22.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-03-05** **Date: 06/11/2018**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 11-10-18

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	06/11/2018	150.02 X 150.68 X 151.02	22606	**8.885**	612.3	27.1	27.6
2	Footing Concrete	M25	09/10/2018	06/11/2018	151.16 X 149.73 X 149.52	22633	**8.057**	610.0	27.0	
3	Footing Concrete	M25	09/10/2018	06/11/2018	149.00 X 149.49 X 149.02	22274	**8.465**	638.4	28.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-03-05** **Date: 16/10/2018**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 11-10-18

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	16/10/2018	149.66 X 149.86 X 149.31	22428	**8.890**	536.9	23.9	22.9
2	Footing Concrete	M25	09/10/2018	16/10/2018	150.47 X 149.92 X 149.07	22558	**8.336**	512.9	22.7	
3	Footing Concrete	M25	09/10/2018	16/10/2018	149.75 X 149.76 X 150.86	22427	**8.952**	496.5	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/11/2018

ab ID	:	**CP-2018-12-03-05**
roject Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
gency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
ustomer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
ate of Receipt	:	11-10-18
ustomer ID	:	Footing Concrete
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M25 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	06/11/2018	151.82 X 150.28 X 150.99	22815	**8.147**	638.2	28.0	27.3
2	Footing Concrete	M25	09/10/2018	06/11/2018	150.97 X 150.38 X 151.75	22703	**8.601**	590.9	26.0	
3	Footing Concrete	M25	09/10/2018	06/11/2018	149.98 X 150.31 X 151.43	22543	**8.370**	632.3	28.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-03-05** **Date: 16/10/2018**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 11-10-18

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	16/10/2018	150.84 X 151.72 X 149.04	22885	**8.530**	529.3	23.1	22.8
2	Footing Concrete	M25	09/10/2018	16/10/2018	149.46 X 149.45 X 150.65	22336	**8.560**	510.0	22.8	
3	Footing Concrete	M25	09/10/2018	16/10/2018	150.88 X 149.59 X 150.51	22570	**8.770**	507.5	22.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-03-05** **Date: 06/11/2018**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 11-10-18

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	06/11/2018	151.69 X 149.99 X 149.96	22751	**8.675**	614.8	27.0	27.2
2	Footing Concrete	M25	09/10/2018	06/11/2018	150.50 X 149.62 X 151.19	22519	**8.836**	590.1	26.2	
3	Footing Concrete	M25	09/10/2018	06/11/2018	149.04 X 150.02 X 150.56	22358	**8.850**	635.0	28.4	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-03-05** **Date: 16/10/2018**

Project Name : Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07

Agency : Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Customer's Reference : EE(Project)/Ynk Zone/wo/12/2018-19

Date of Receipt : 11-10-18

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	16/10/2018	150.59 X 150.24 X 151.63	22625	**8.703**	539.7	23.9	23.0
2	Footing Concrete	M25	09/10/2018	16/10/2018	150.28 X 149.57 X 149.39	22477	**8.428**	508.9	22.6	
3	Footing Concrete	M25	09/10/2018	16/10/2018	151.80 X 151.48 X 151.01	22995	**8.221**	518.0	22.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/11/2018

Lab ID	:	**CP-2018-12-03-05**
Project Name	:	Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07
Agency	:	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/wo/12/2018-19
Date of Receipt	:	11-10-18
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	09/10/2018	06/11/2018	151.62 X 151.18 X 151.91	22923	**8.615**	633.9	27.7	27.6
2	Footing Concrete	M25	09/10/2018	06/11/2018	149.87 X 151.48 X 151.79	22703	**8.200**	601.6	26.5	
3	Footing Concrete	M25	09/10/2018	06/11/2018	149.95 X 151.24 X 150.55	22679	**8.310**	649.2	28.6	

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